

 <p>DOW CHEMICAL PACIFIC (SINGAPORE) PRIVATE LIMITED</p>	<p>上海新岛化工有限公司 上海市万航渡路789号1303室 200042 上海 中国</p> <p>Ship From: Yusen Laem Chabang Sub Mft Chonburi Thailand</p>																																				
<p style="text-align: center;">分析证明/ Certificate of Analysis</p> <p>产品编号/Product Number 00000114877 产品名称/Product Name 丙二醇 USP/EP</p> <p>送货单号/Delivery No. 815848466 / 000010 订单号码/Order Number 109735695 货运单位/Shipping Units 80.000 DR 装货日期/Date Shipped 2019-05-18 (YYYY-MM-DD) 装运单号/Shipment No. 34575810</p>	<p style="text-align: center;">客户资讯/Customer Information</p> <p>客户名称/Customer Name SHANGHAI XINDAO CHEMICAL 客户订单号/Customer PO number E-PGUSP-XinDao-19011</p> <p>集装箱编号/Container ID CSLU1717848</p> <p>规格号/Specification Number 000000059518</p>																																				
<p>产品名称 (英语)/Product Name (English) Propylene Glycol USP/EP 批号/Batch Number C815J52TD1 Seal Number OOLFQC1572 产品有效期/Expiration Date 2021-05-01 (YYYY-MM-DD) 生产日期/Manufacturing Date 2019-05-02 (YYYY-MM-DD) 数量/Quantity 80.000 DR 净重/Net Weight 17200.000 KG 生产工厂/Manufacturing Plant MTP AIE PG 制造商地址/Manufacturer Address 10/4 Moo 2 ASIA IND EST BANCHANG 罗勇 21130</p> <p>It is hereby certified that the material indicated above has been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and, unless agreed otherwise conforms in all respects to the specification relevant thereto and it meets all requirements of the current United States Pharmacopoeia, current Food Chemical Codex, current European Pharmacopoeia and current Pharmacopoeia of Japan.</p>																																					
<table border="1"> <thead> <tr> <th>测试/Test</th> <th>单位/Unit</th> <th>下 限制/Lower Limit</th> <th>上 限制/Upper Limit</th> <th>值/Value</th> <th>方法/Method</th> </tr> </thead> <tbody> <tr> <td>含量 Assay</td> <td>%</td> <td>99.80</td> <td>-</td> <td>99.95</td> <td>Current USP</td> </tr> <tr> <td>M 酸度 Acidity</td> <td>ml</td> <td>-</td> <td>0.20</td> <td>0.02</td> <td>Current USP</td> </tr> <tr> <td>M 氯化物 Chlorides</td> <td>ppm</td> <td>-</td> <td>70</td> <td>< 70</td> <td>Current USP</td> </tr> <tr> <td>M 点火残余 Residue on Ignition per 50g</td> <td>mg</td> <td>-</td> <td>3.50</td> <td>0.95</td> <td>Current USP</td> </tr> <tr> <td>M 比重 Specific Gravity 25/25°C</td> <td></td> <td>1.035</td> <td>1.037</td> <td>1.036</td> <td>Current USP</td> </tr> </tbody> </table>		测试/Test	单位/Unit	下 限制/Lower Limit	上 限制/Upper Limit	值/Value	方法/Method	含量 Assay	%	99.80	-	99.95	Current USP	M 酸度 Acidity	ml	-	0.20	0.02	Current USP	M 氯化物 Chlorides	ppm	-	70	< 70	Current USP	M 点火残余 Residue on Ignition per 50g	mg	-	3.50	0.95	Current USP	M 比重 Specific Gravity 25/25°C		1.035	1.037	1.036	Current USP
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	在20C的比重 Spec. Grav. @ 20C		1.0376	1.0389	1.0381	ASTM D4052
M	硫酸盐 Sulfate	ppm	-	60	< 60	Current USP
	水分 Water Content	%	-	0.200	0.008	Current USP
M	ID 测试A ID Test A 匹配红外扫描	-	-	-	Pass	Current USP
	ID测试B ID Test B 限乙二醇	-	-	-	Pass	Current USP
	ID测试B ID Test B 二甘醇的限制	-	-	-	Pass	Current USP
	ID测试C ID Test C 與GC扫描匹配	-	-	-	Pass	Current USP
M	酸度 Acidity	ml	-	0.05	0.02	Current EP
M	沸点 Boiling Point	°C	184	189	185	Current EP
M	清澈度 Clarity	-	-	-	Pass	Current EP
M	色度 Color	-	-	-	Pass	Current EP
O	熔点 Melting Point	°C	121	128	125	Current EP
M	氧化性物质 Oxidizing Substances 0.05M硫代硫酸钠	ml	-	0.20	0.05	Current EP
M	还原物质 Reducing Substances	-	-	-	Pass	Current EP

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M	折射率 Refractive Index 20°C	1.431	1.433	1.433	Current EP	
M	相对密度 Relative Density 20/20°C	1.035	1.040	1.038	Current EP	
M	硫酸盐灰分 Sulfated ash	%	-	0.0100	0.0023	Current EP
	水分 Water Content	%	-	0.200	0.008	Current EP
	含量 Assay	%	99.80	-	99.95	Current FCC
M	酸度 Acidity	-	-	-	Pass	Current FCC
M	外观 Appearance 明确和无色	-	-	-	Pass	Current FCC
M	蒸馏, IBP Distillation, IBP	°C	185.0	-	186.8	Current FCC
M	蒸馏, DP Distillation, DP	°C	-	189.0	188.0	Current FCC
O	铅 (铅) Lead (Pb)	ppm	-	1.0	< 1.0	Current FCC
M	确认试验 Identification 匹配红外扫描	-	-	-	Pass	Current FCC
M	点火残余 Residue on Ignition	%	-	0.0070	0.0027	Current FCC
M	比重 Specific Gravity 25/25°C		1.035	1.037	1.036	Current FCC
	水分 Water Content	%	-	0.200	0.008	Current FCC




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Thailand

M 酸度 Acidity	-	-	-	Pass	Current JP
M 砷 Arsenic	ppm	-	2.0	< 2.0	Current JP
M 氯化物 Chlorides	%	-	0.007	< 0.007	Current JP
M 馏程 Distilling Range 184 - 189 摄氏度	% vol	95	-	96	Current JP
M 甘油 (气味) Glycerine (Odor)	-	-	-	Pass	Current JP
M 重金属 Heavy Metals	ppm	-	5.0	< 5.0	Current JP
O 熔点 Melting Point	°C	174	178	176	Current JP
M 气味 Odor	-	-	-	Pass	Current JP
M 点火残余 Residue on Ignition	%	-	0.0050	0.0043	Current JP
M 比重 Specific Gravity 20/20°C		1.035	1.040	1.038	Current JP
M 硫酸盐 Sulfate	%	-	0.002	< 0.002	Current JP
水分 Water Content	%	-	0.500	0.008	Current JP
酸度 Acidity 如乙酸	%	-	0.0020	0.0001	DOWM 101370
外观 Appearance 清晰, 无悬浮物	-	-	-	Pass	观察
氯化物 Chlorides	ppm	-	1.0	< 1.0	DOWM 101867

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Note 1: Values reported for Assay, Ethylene Glycol and Diethylene Glycol under USP and for Assay under FCC are obtained using the validated equivalent Dow GC Method DOWM 100687. M:Quarterly Sample O:Annual Sample																																					
Plant Quality Coordinator 如有问题, 请咨询客户服务人员或当地销售人员 For inquiries please contact Customer Service or local sales © 陶氏化学公司 ("陶氏") 或其关联公司的商标 © Trademark of The Dow Chemical Company ("Dow") or an affiliated company of DOW																																					